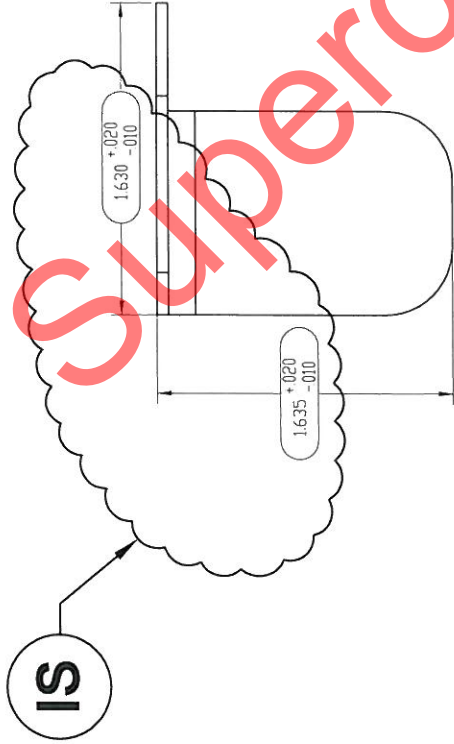
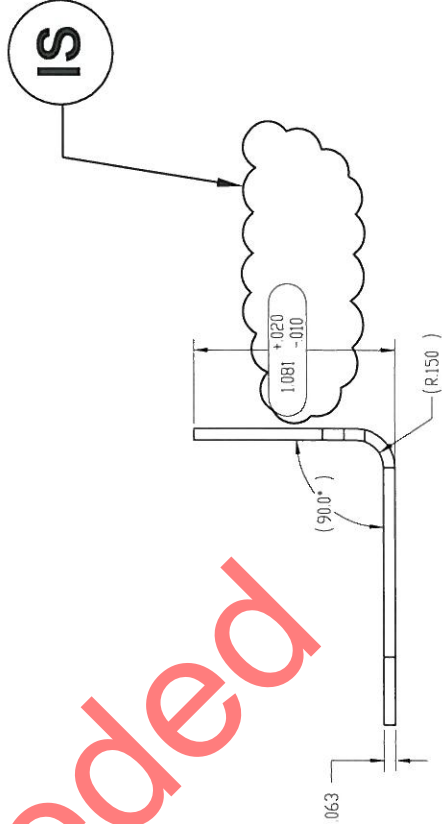


ENGINEERING CHANGE NOTICE NO. 03707		SHEET 1 OF 2	
DWG NO. 647.9000	REV: N/C	DATE: 11/16/12	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.
DWG TITLE: SHEETMETAL			
APPROVED BY: <i>[Signature]</i>	ENGR: <i>[Signature]</i>	MFG: <i>[Signature]</i>	QC: <i>[Signature]</i>
REASON: REVISED TOLERANCES AND REFERENCE DIMENSIONS.		EFF: NEXT ORDER	
TRANSACTION CODES (T/C): A-ADD R-REVISE C-CREATE D-DELETE		ECR: D-12-019	



SHEET 3, ZONE B1 & B2 IS:



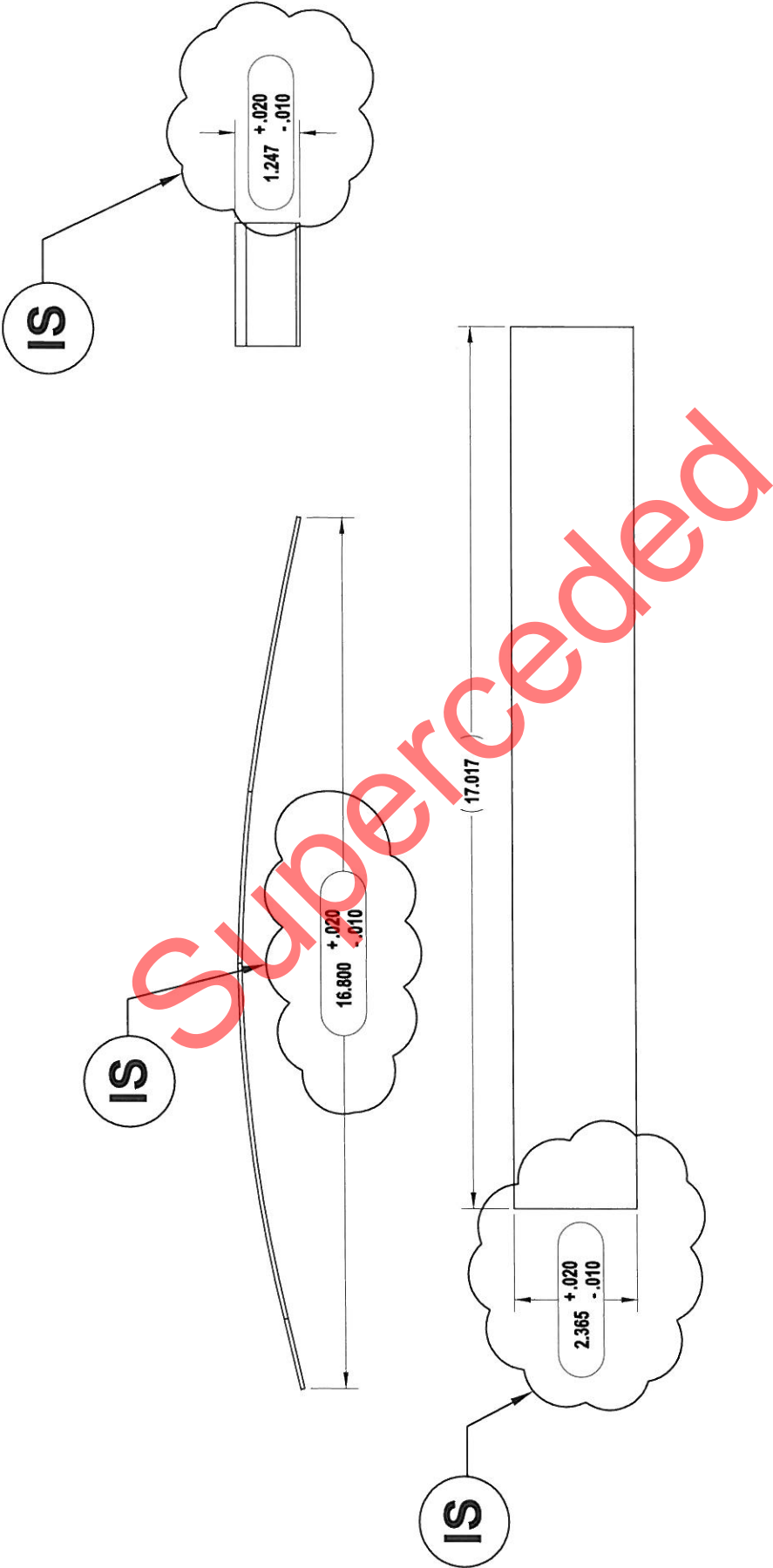
SHEET 3, ZONE D6 IS:

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:				<input type="checkbox"/> RFMS <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL <input type="checkbox"/> INSTRUC <input type="checkbox"/> ICA <input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

APICAL INDUSTRIES, INC.		ENGINEERING CHANGE ORDER NO. 03707		SHEET 2 OF 2	
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL / SPECIFICATION

SHEET 6 IS:

The drawing shows a mechanical part with several dimensions and callouts. A large dimension of 16.800 is shown with a tolerance of +.020 / -.010. A smaller dimension of 1.247 is shown with a tolerance of +.020 / -.010. A third dimension of 2.365 is shown with a tolerance of +.020 / -.010. A fourth dimension of 17.017 is shown. A callout 'IS' points to the part. A large red 'Superceded' watermark is overlaid on the drawing.



SHEET 6 IS:

ENGINEERING CHANGE NOTIC		NO. 03266		SHEET 1		OF 2	
DWG NO. 647.9000		REV: N/C		PREPARED BY		A. QUAN	
DATE: 11/15/11		EFFECT ON DWG		<input type="checkbox"/> INC.		<input checked="" type="checkbox"/> UNINC.	
DWG TITLE: SHEETMETAL							
APPROVED BY:		ENGR		MFG		EFF:	
REASON: REVISED 647.9014 MATERIAL, REVISED DIMENSIONS OF P/N 647.9012		OF		Paul Lynn		CURRENT ORDER AND STOCK	
TRANSACTION CODES (TC)		A-ADD		C-CREATE		R-REVISE	
D-DELETE							

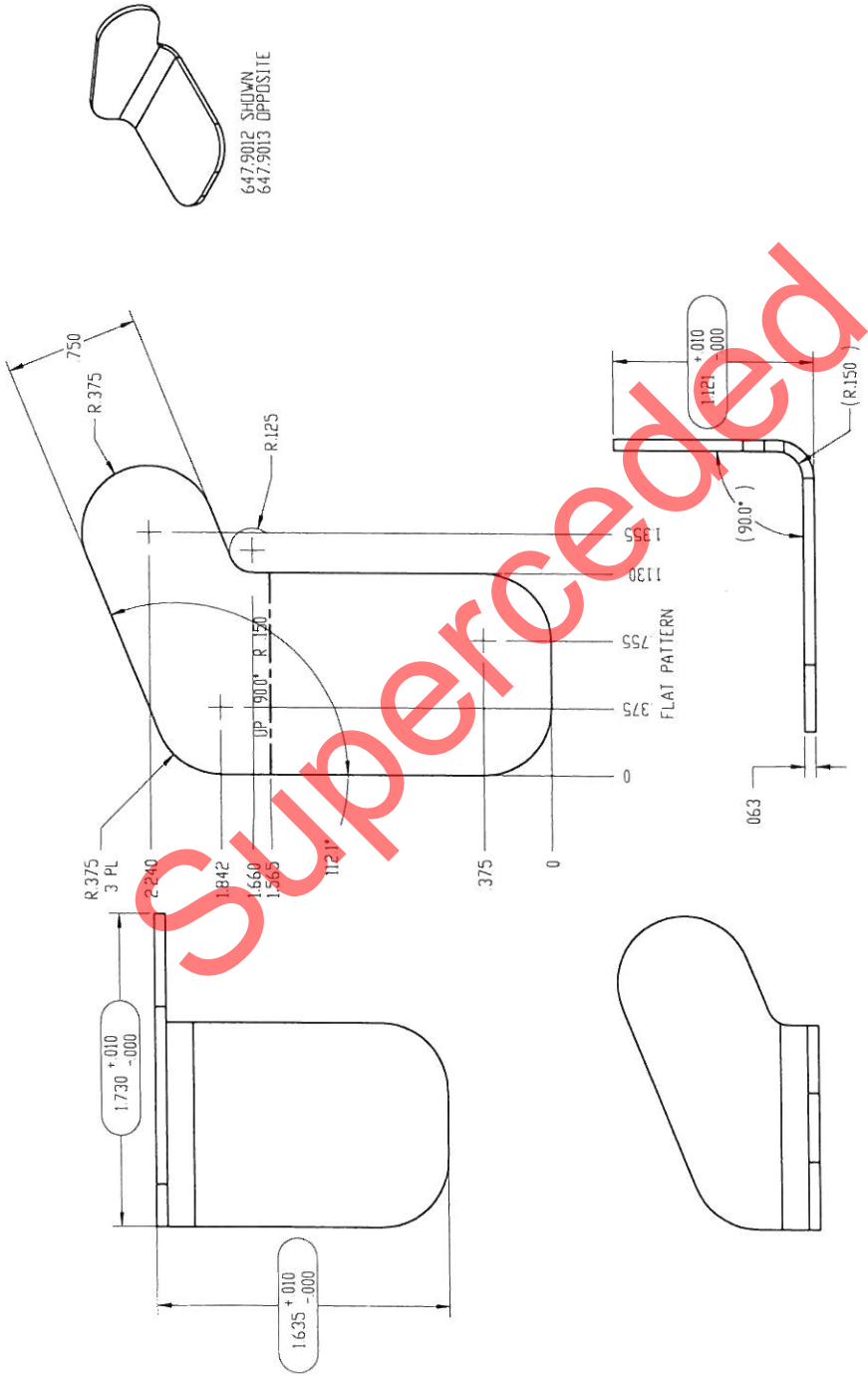
SHEET 1, NOTES:

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK; PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N
- 3 DEBURR AND BREAK ALL SHARP EDGES
- 4 IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION 12PT. CENTURY GOTHIC.
- 5 ALL DIMENSIONS SHOWN PRIOR TO FINISH
- 6 PART DIMENSIONS CONTROLLED BY CAD MODEL; FILE NAME: 647.9016 DOUBLER.SLDPRT-LAST MODIFIED 06-29-10
- 7 INSPECTION DIMENSIONS SHOWN WITH FINISH APPROX. 3-5 MIL MAX PER FACE.
- 8 MATERIAL: 304SS IAW AMS 5643
- 9 FINISH: PRIME IAW MIL-P-23377J, TYPE I, CLASS N

5	R	647.9014	STRUT BRACKET		8		9	
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION		
DOCUMENTS EFFECTED:				CHANGE CATEGORY		DER REVIEW REQUIRED		
<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRU <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM				<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

SHEET 3, IS:



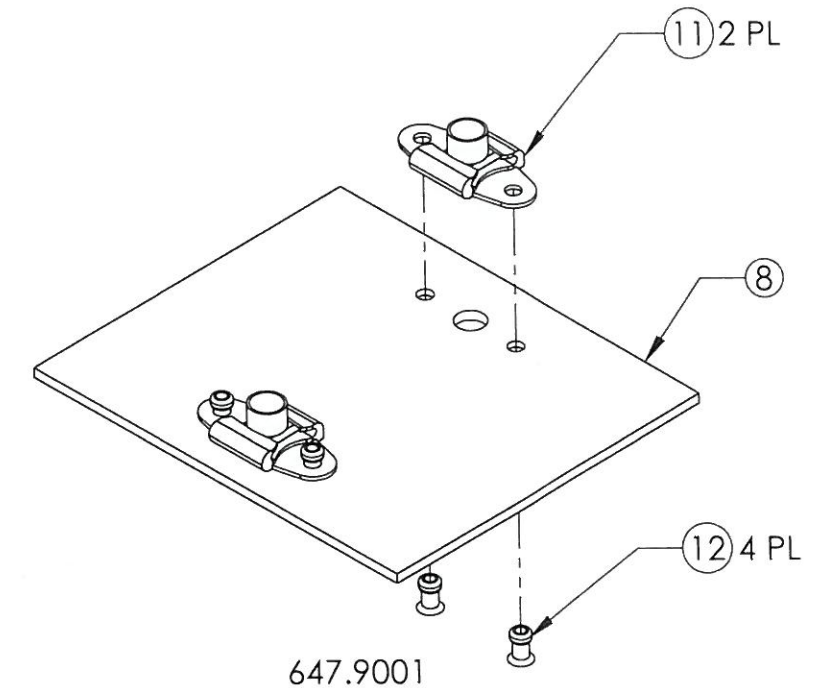
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
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THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE RELEASE: PR2		
N/C	INITIAL RELEASE	06-30-10	P. BRAVO

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION 12PT. CENTURY GOTHIC.
5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.
- 6 PART DIMENSIONS CONTROLLED BY CAD MODEL; FILE NAME: 647.9016 DOUBLER.SLDPRT-LAST MODIFIED 06-29-10
7. INSPECTION DIMENSIONS SHOWN WITH FINISH APPROX. 3-5 MIL MAX PER FACE.



UNINCORPORATED ECN(s)

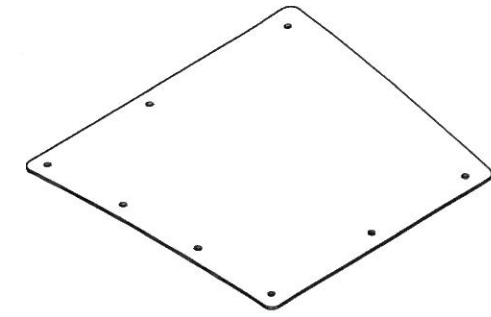
03213, 03246, 03707

	4	12	601.2277	RIVET	CCR264SS-3-02	
	2	11	601.1900	NUTPLATE	MS21059-3	
		10	647.9019	HINGE	1	2
		9	647.9018	DOUBLER	1	2
	1	8	647.9017	DOUBLER	1	2
		7	647.9016	DOUBLER	1	2 6
		6	647.9015	DOUBLER	1	2
		5	647.9014	STRUT BRACKET	1	2
		4	647.9013	FWD CLIP	1	2
		3	647.9012	FWD CLIP	1	2
		2	647.9011	DOUBLER	1	2
		1	647.9010	DOUBLER	1	2
			647.9001	DOUBLER ASSY	1	2
	.9001	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

QTY		PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR) 04-13-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
		DRAWN BY R. ROSANO	CHECKER P. BRAVO		
647.8900	DRAWING APPROVAL P. BRAVO 06-30-10				
647.9400	CONTRACT No.				
		SHEETMETAL			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
		SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.9000	REV. N/C
		SCALE NONE			SHEET 1 OF 9

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



647.9010 SHOWN
647.9011 OPPOSITE

R.250 THRU
4 PL

8.119
7.715
6.802
6.480

8.419^{+.010}
-.000

7.010^{+.010}
-.000

DOWN 6.7° R 64.945

.400
.250
0
Ø.160
8 PL

0 .250 .385 .580 2.670 3.817 4.955 7.233 7.384 7.633

(R64.945)

7.625^{+.010}
-.000

FLAT PATTERN

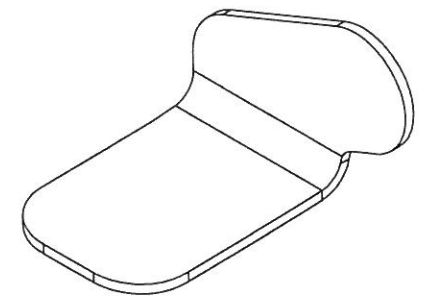
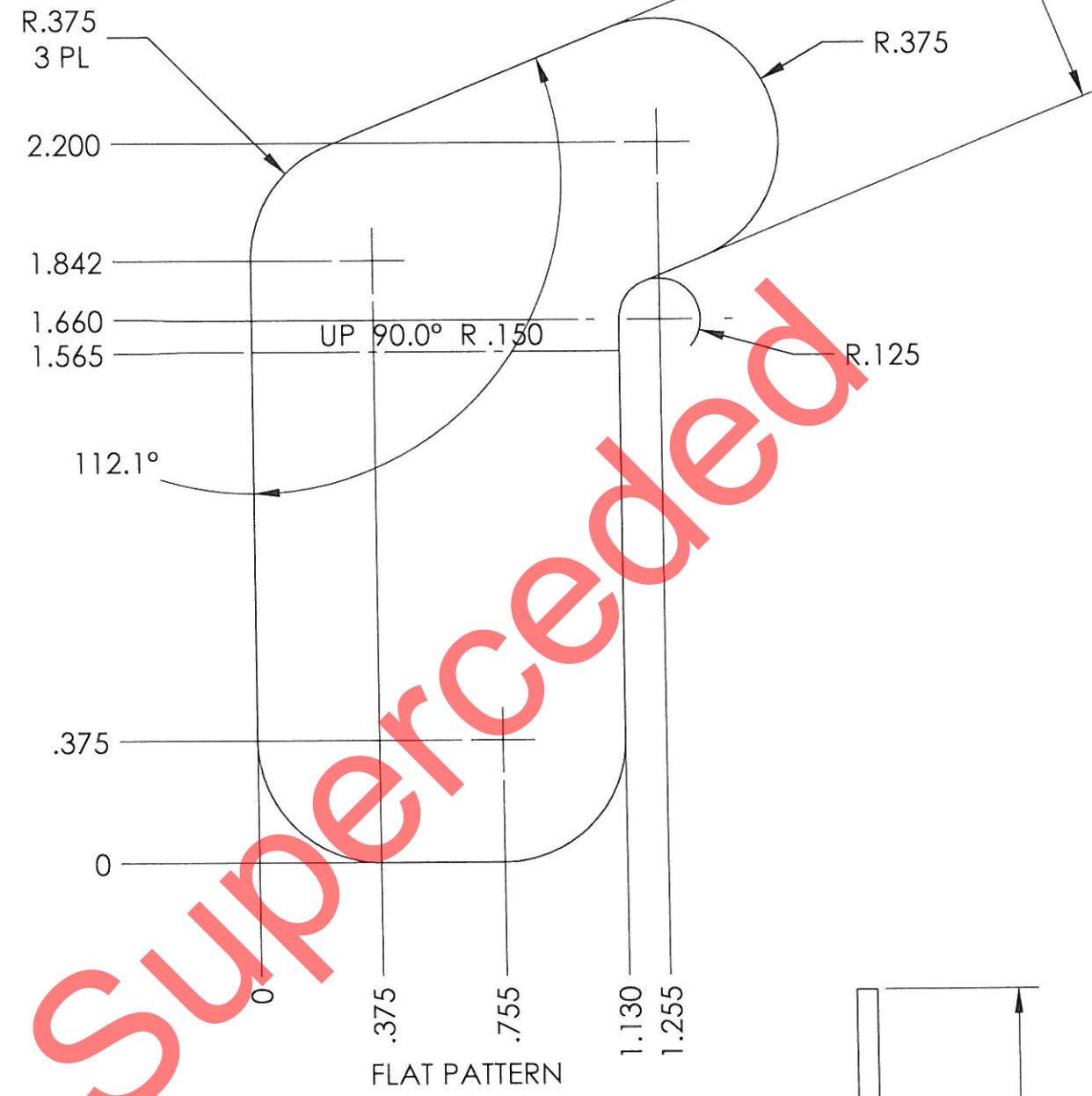
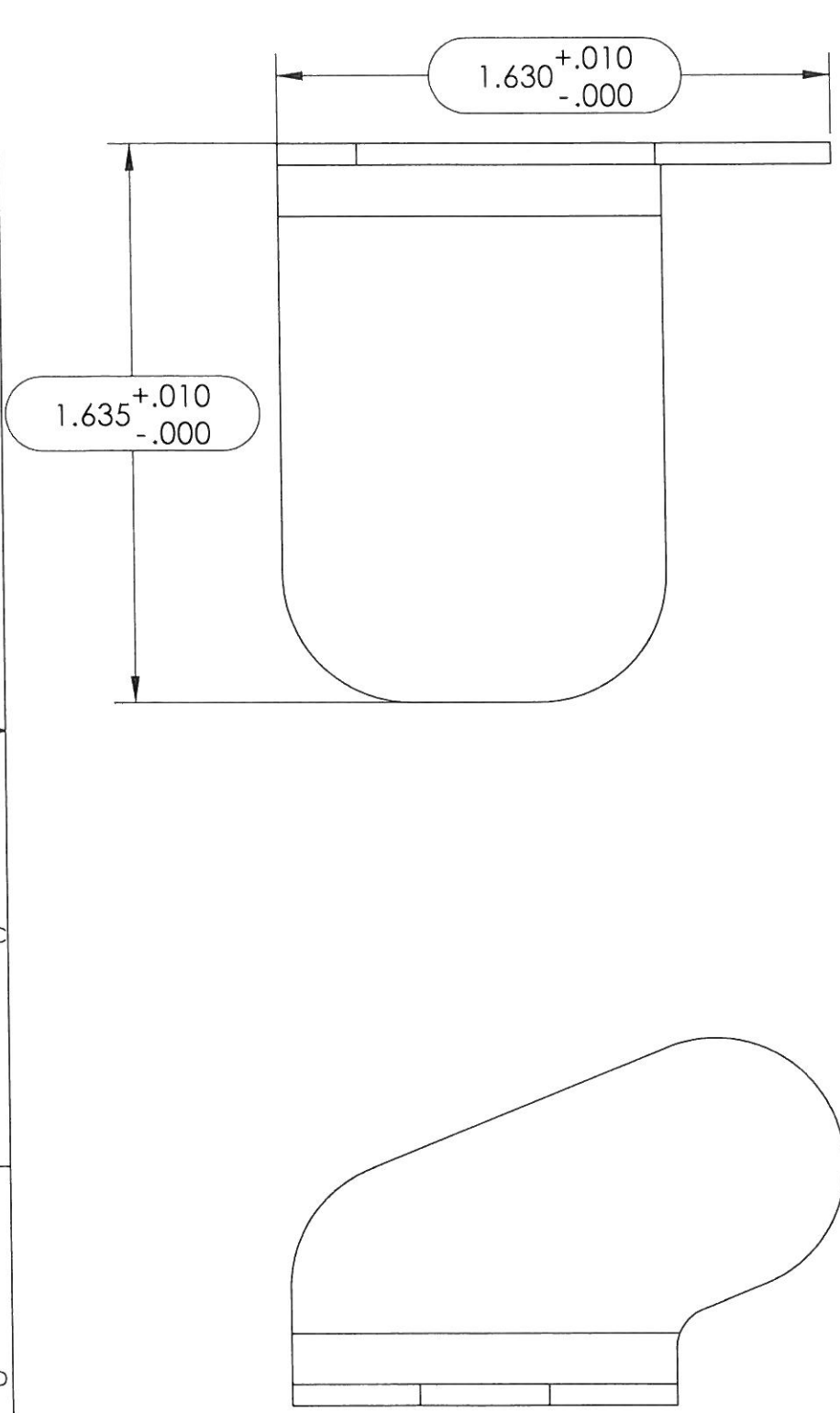
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ORIGINAL DATE (MM-DD-YY) 04-13-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-30-10 CONTRACT NO.		SHEETMETAL	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV N/C
CAGE CODE 07MZ6		DWG. NO. 647.9000	SHEET 2 OF 9
SCALE NONE			

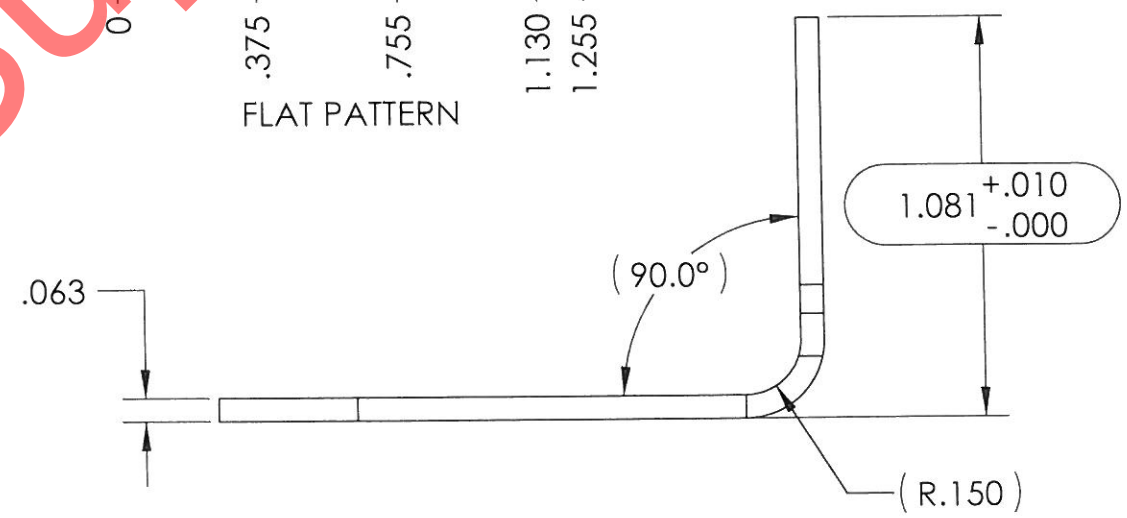
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

A
B
C
D



647.9012 SHOWN
647.9013 OPPOSITE



ORIGINAL DATE (MO-DA-YR) 04-13-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		SHEETMETAL	
DRAWING APPROVAL P. BRAVO		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	
CONTRACT No.		SIZE B	REV N/C
CAGE CODE 07MZ6		DWG. NO. 647.9000	SCALE NONE
SHEET 3 OF 9		SHEET 3 OF 9	

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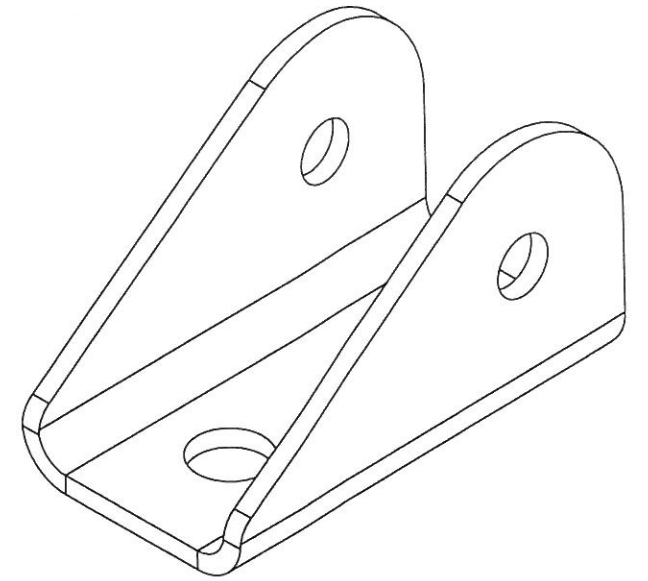
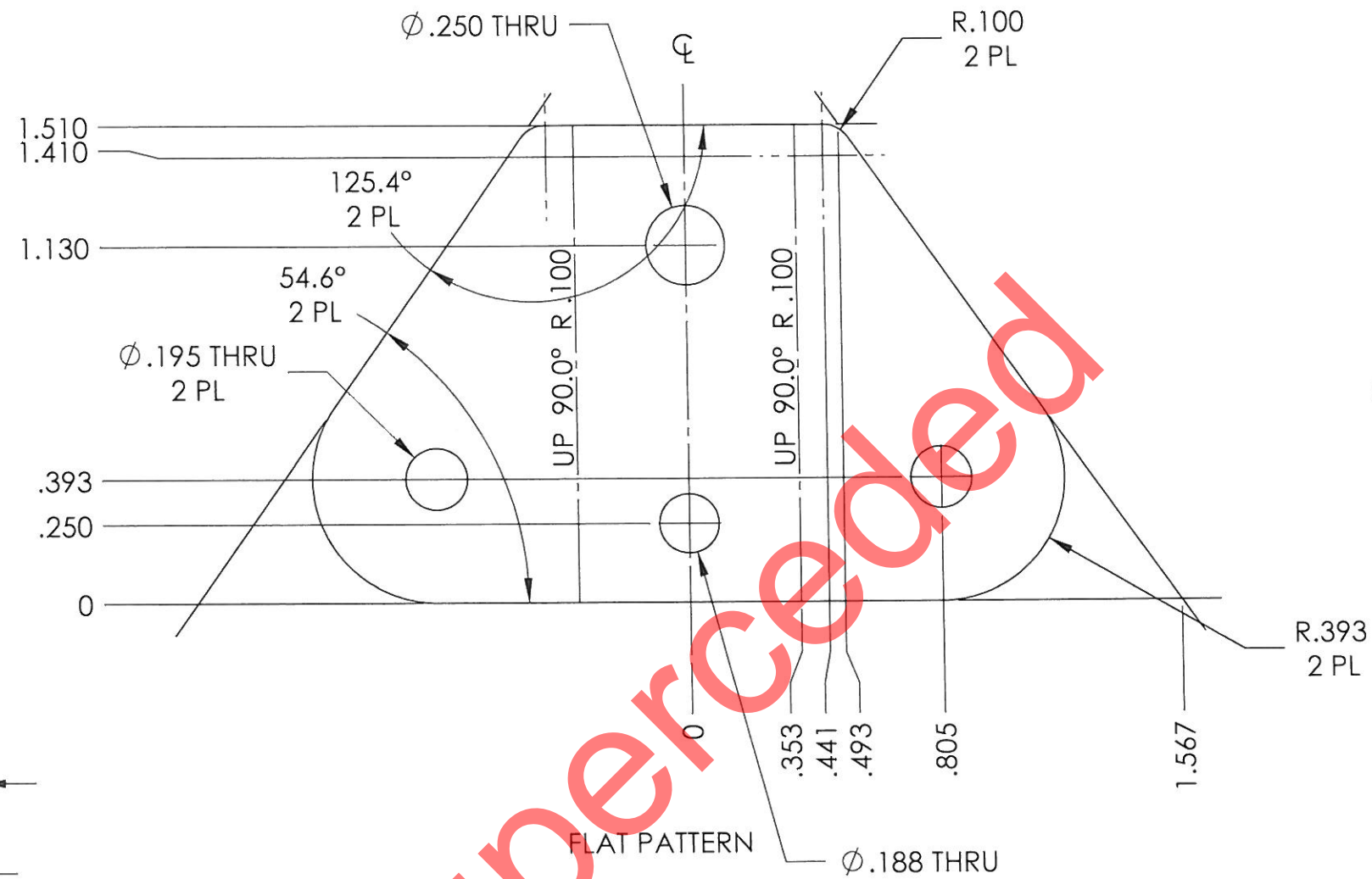
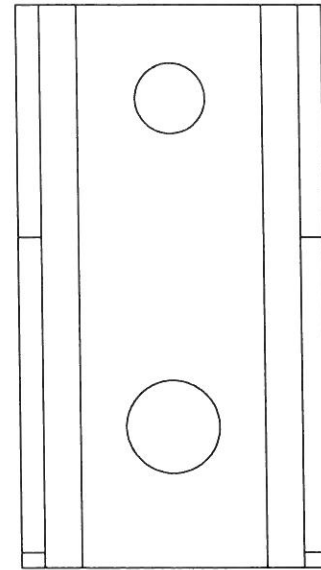
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

A

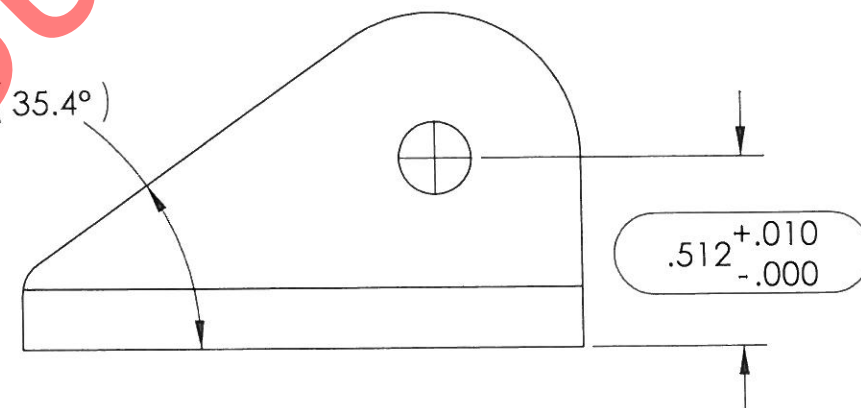
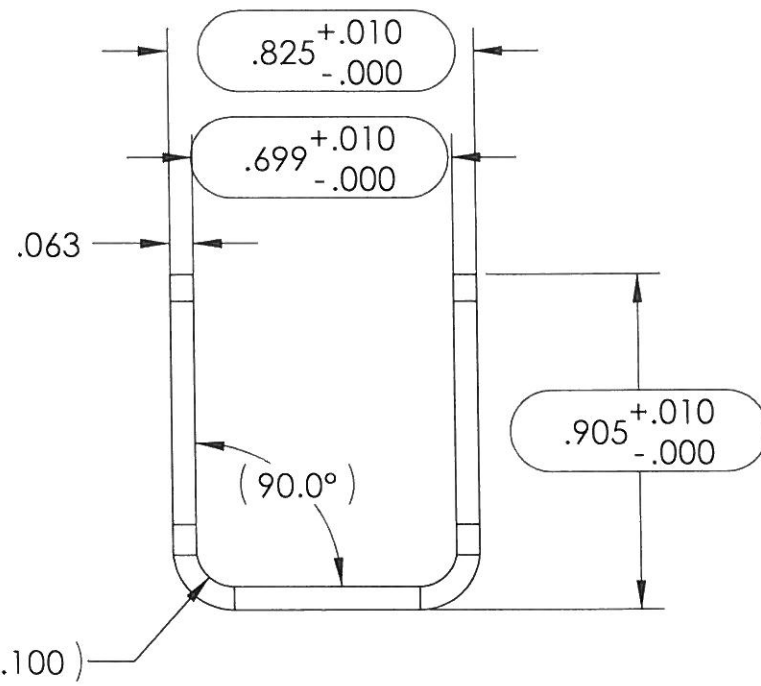
B

C

D



647.9014

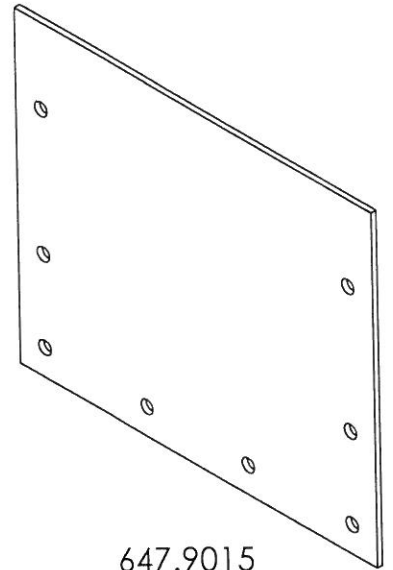
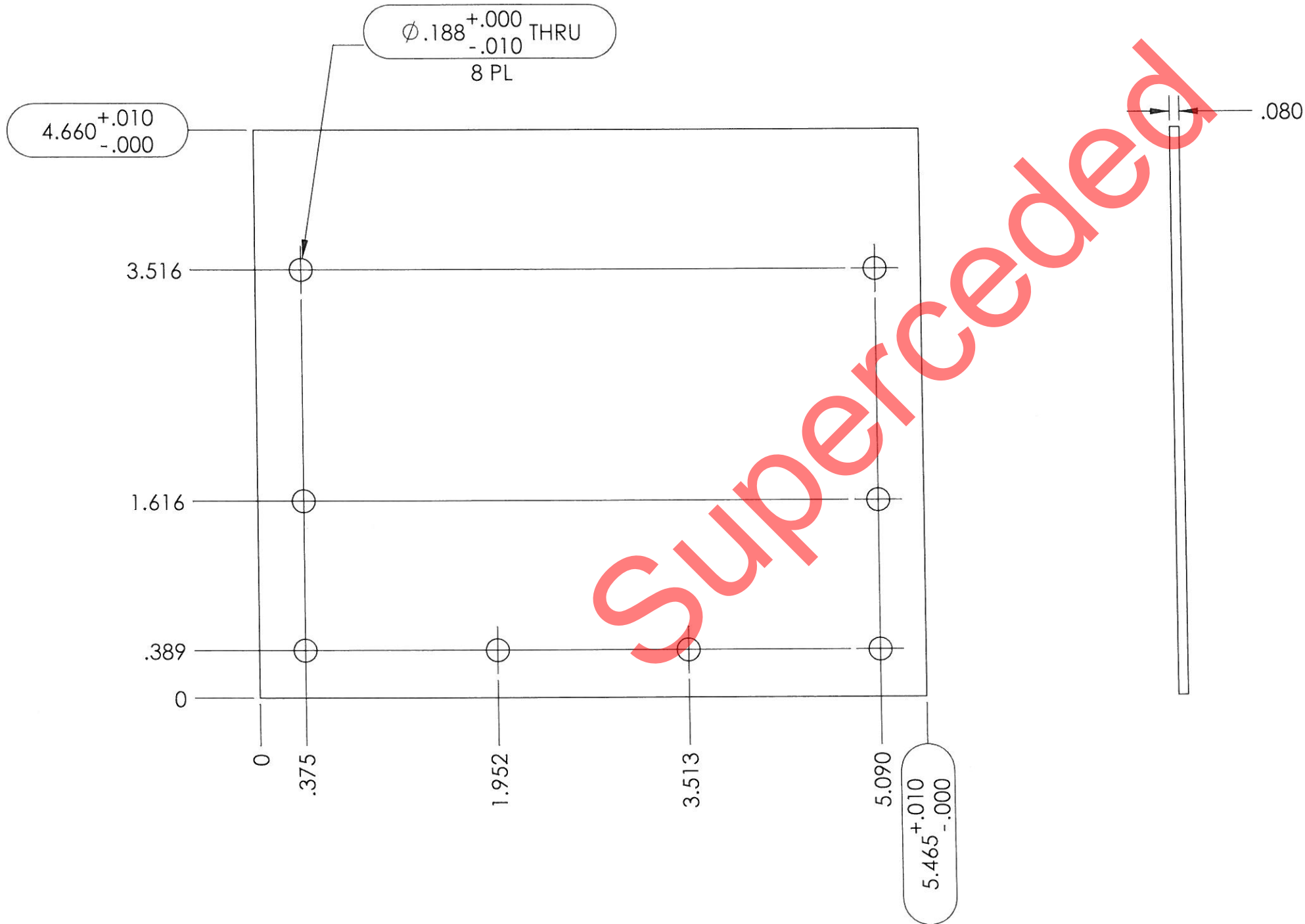


ORIGINAL DATE (MO-DA-YR) 04-13-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		SHEETMETAL	
DRAWING APPROVAL P. BRAVO		DWG. NO. 647.9000	
CONTRACT No.		REV N/C	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07M26
		SCALE NONE	SHEET 4 OF 9

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

A
B
C
D

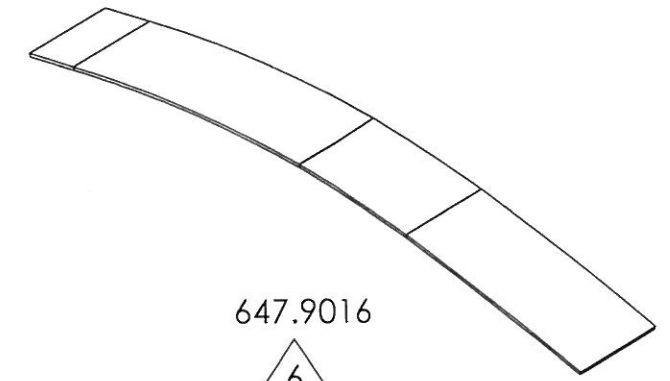
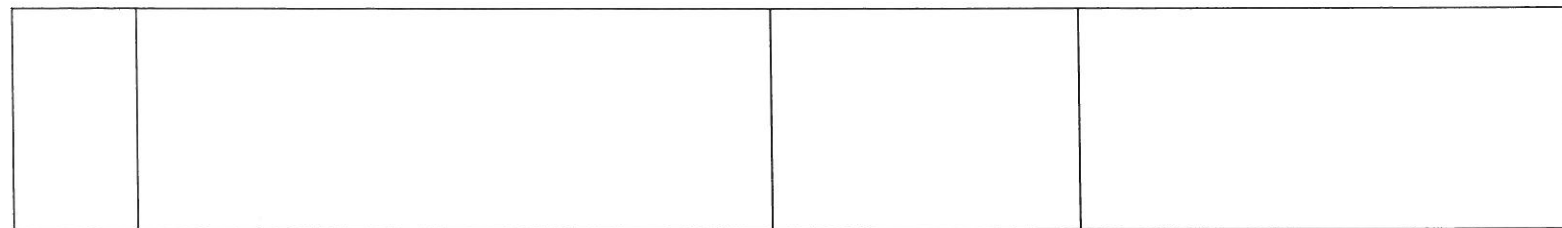


ORIGINAL DATE (MO-DA-YR) 04-13-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		SHEETMETAL	
DRAWING APPROVAL P. BRAVO 04-30-10		DWG. NO. 647.9000	
CONTRACT NO.		REV N/C	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	SCALE NONE
		CAGE CODE 07MZ6	SHEET 5 OF 9

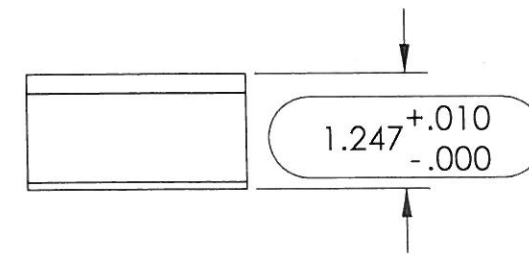
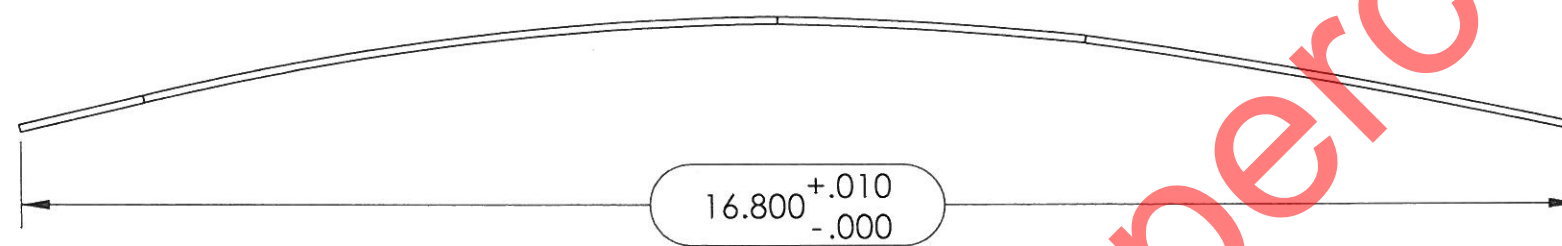
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

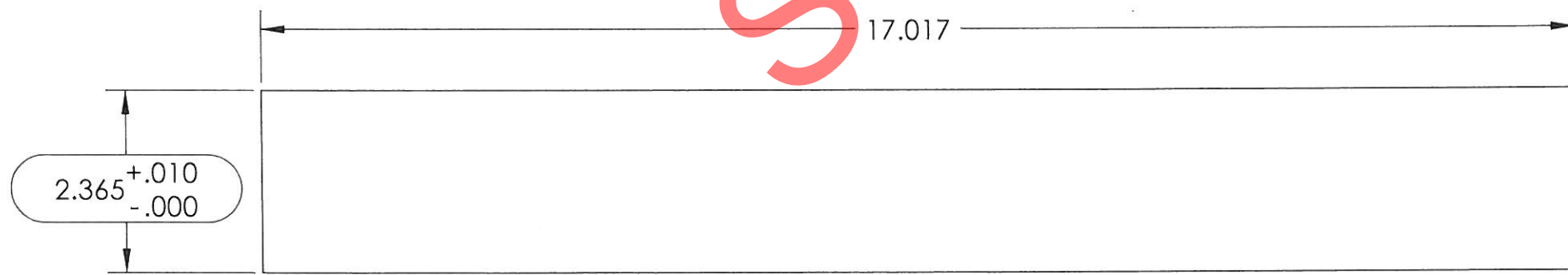
A



B



C



D

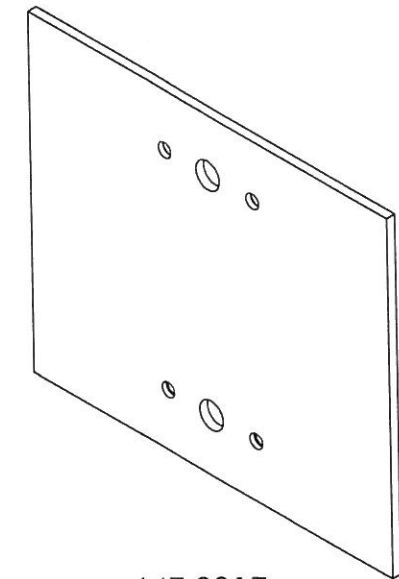
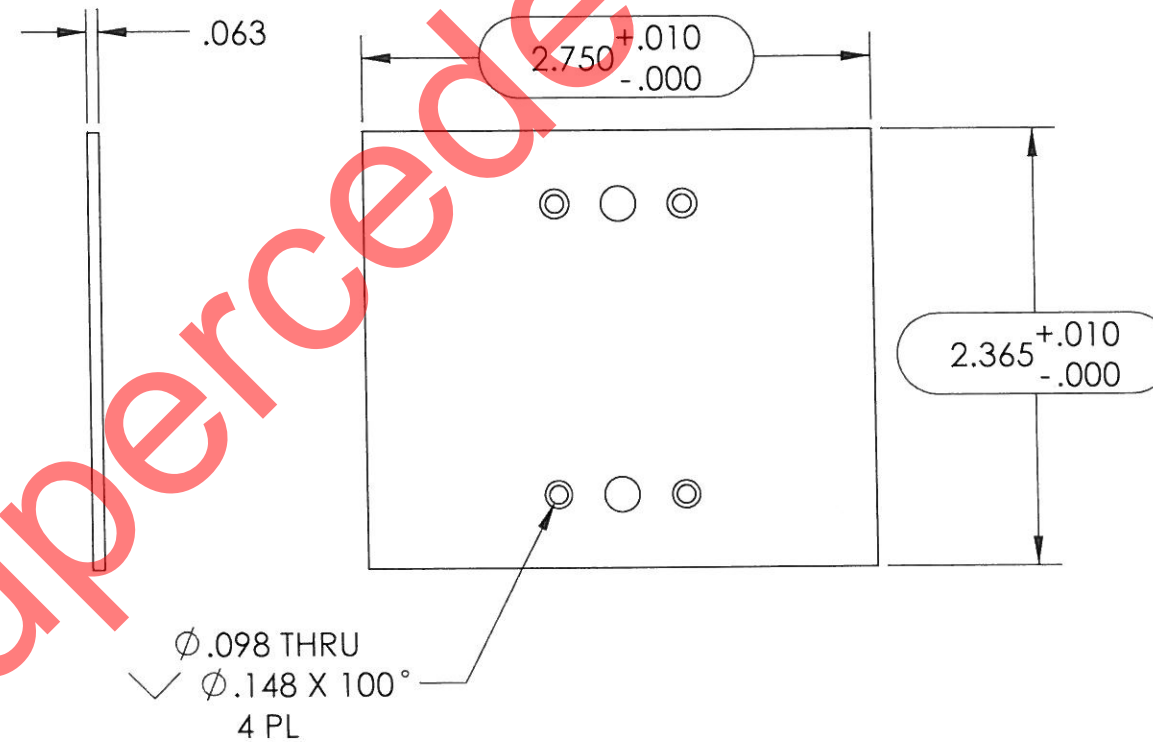
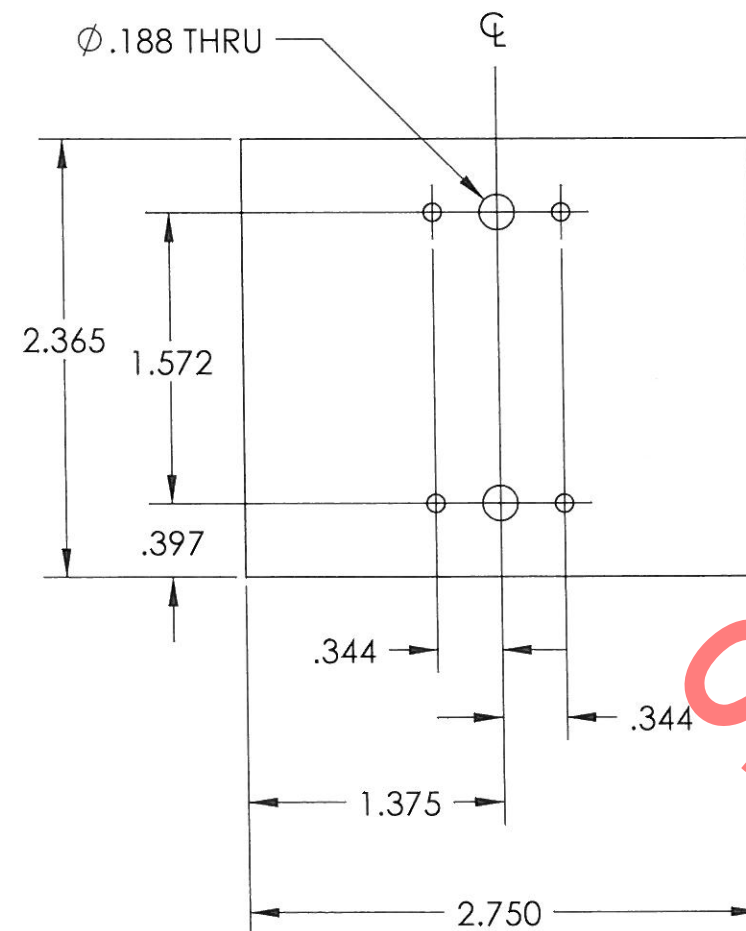
FLAT PATTERN

.080

ORIGINAL DATE (MO-DA-YR) 04-13-10		DRAWN BY R. ROSANO		CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO		CONTRACT No.		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET B	CAGE CODE 07MZ6	DWG. NO. 647.9000	REV. N/C
SCALE NONE				SHEET 6 OF 9	

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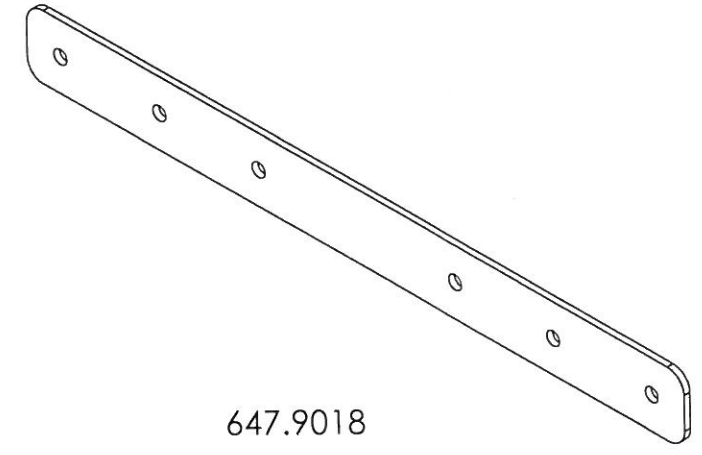
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE (MO-DA-YR) 04-13-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		SHEETMETAL	
DRAWING APPROVAL P. BRAVO		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$	
CONTRACT NO.		SIZE B	REV N/C
		CAGE CODE 07MZ6	DWG. NO. 647.9000
		SCALE NONE	SHEET 7 OF 9

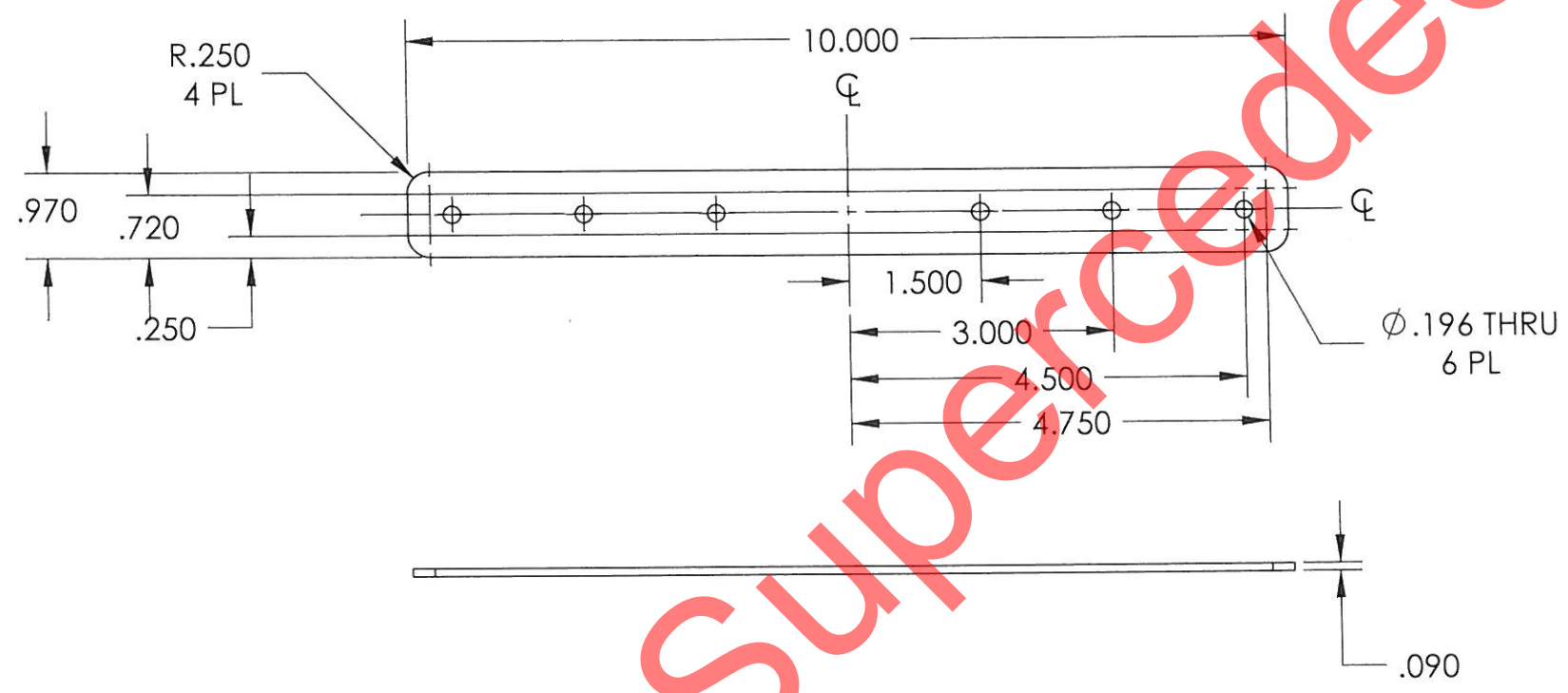
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



647.9018

PR2

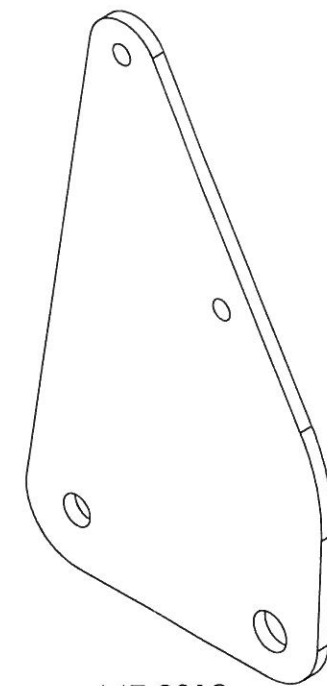
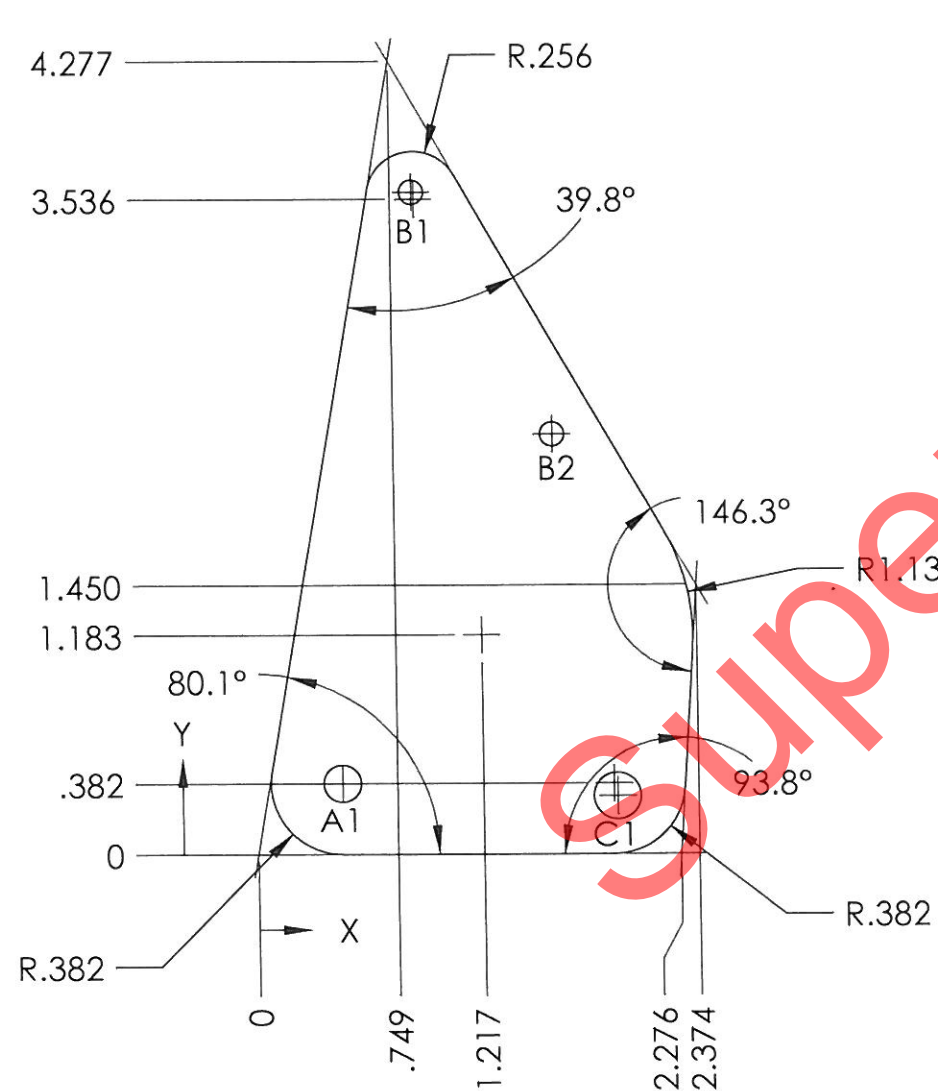


ORIGINAL DATE (MO-DA-YR) 04-13-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300						
DRAWN BY R. ROSANO						CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-30-10						CONTRACT No.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°				SHEETMETAL				
				SIZE B	CAGE CODE 07M26	DWG. NO. 647.9000	REV. N/C	
				SCALE NONE		SHEET 8 OF 9		

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

PR2



647.9019

TAG	X LOC	Y LOC	SIZE
A1	.455	.382	Ø .201 THRU
B1	.867	3.573	Ø .130 THRU
B2	1.614	2.266	Ø .130 THRU
C1	1.939	.312	Ø .250 THRU

ORIGINAL DATE (MO-DA-YR) 04-13-10		APICAL INDUSTRIES	
DRAWN BY R. ROSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKER P. BRAVO		SHEETMETAL	
DRAWING APPROVAL P. BRAVO		DWG. NO. 647.9000	
CONTRACT NO.		REV. N/C	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE	SHEET 9 OF 9